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 Liew, Choong-Chin

10 <120> Method for the Detection of Gene Transcripts in Blood and Uses
 Thereof

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20 <150> US
 <151> 2000-01-04

25 <150> US 60/115,125
 <151> 1999-01-06

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30 <212> DNA
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 cccacattc cattttaat atatactgtc cttacaat attataatat gtttaaat 180

40 atgtcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240
 tttgaatata tatttagttt ttatgtgg taggaaaatc aaagccagag ggagtagaaa 300

45 caaaaattgt gatttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
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aaggggggaa aattttccg ggggtggtn ggggaacca attaagggg ggggcccccg 240
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 ctgtacttga actctaaaac tggggagaa actcagtgc taccccaaca gattcatttc 180
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tttaggcggc acccaacaa caccaggccc tactttcc aaggncgggg aagccatgg 180

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242

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 aaggggggtg ggaaagagcc aaatttctt gggaaanaac gcccccttgg gaaaaanaag 180
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 aggagaaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcgg tgcgctcgac ggcgagctg 180

acgctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgct 240

45 agcagcagga cactttgcc cgggagctt accgcggg gagtcgaaga ctgcctgna 300

ttgccgggaa gtcagcagtc gcttttccc ggncaagcc tcgaactcac cancctgtct 360

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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

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cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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agctaatttc tgctctgctc cttctgtgac atgtggcagc gtggaaata gccactgtcc 240

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 gagatgagat aaaatgagat gaaatgaagt gaaatgaaat gaantcctga aattgacntg 180
 agatgaactg agataaaatg ntgagatgaa ntgatgagaa gaaatgagat gaaatgagat 240

30 30 gagatgatga gatgaaaaat gctgagatga aacntgatga gatgaaatga tgagatgaat 300
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35 actaatgaaa tggaaatgaa atggnntga tgagatgaga agaantctg agatgagata 420
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 35 35 gtttcaaggc cttctgcna aatatgaana aaagngcnct tagtttttngggactgn 720
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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa 180

gaagagtcctt agttcattta ttggcccaag aaccctctaa tcccctgtt atttatgtca 240

25 agaggaacag ctctttggac actggaaaac cgtgagagag taagattac acccttaggg 300

gcctaatacg agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctccctcgca taagccctgc gttggattat atccctgcact 480

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35 <210> 55

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40 agcctgccct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

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ggatttgggg ttagaggta caattgcctt ttatggta gagaaggc tcggggctgg 180
15 agggagcctg acgatctgct ctgtgtgcaa ggggagat aactctgcac gcaagagcct 240
gcttaaaggc ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag 300
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<210> 57
<211> 209
<212> DNA
25 <213> Human

<400> 57
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aggagaattt cgtcattaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
taattggag tgggggctga aacaattcg 209
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<210> 58
<211> 262
<212> DNA
40 <213> Human

<400> 58
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45 acctggtcac cgagttgcga accagcctcc aataatgtgga accctgtact ctctaaaaat 120

caaattcacccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac 240
5 agagcgagac tccatctcta at 262

<210> 59
<211> 430
10 <212> DNA
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15 aaacctttat tgccttacag gggggaacta gcgcgggct gaataaaacc ttggccctt 120
cccgaaaaag gggtatccgg ttataaaacc ccaagggtat ttcttagca aaatacttaa 180
20 aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggcctttga 240
tctggatgg gaatatgagt tttatacat ttcattttct tttggcaa aggcccggtt 300
aagtattccc ccccgaaaaa ctttacaaa aagggcggtt taaaaagctt ttggccccc 360
25 ctagggaaatt gtttaacac ctaaaaaccc ctgccttccct taaagggcg ttttttaatt 420
tggggcgcc 430

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<212> DNA
<213> Human
35 <400> 60
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40 tatcatgtgt aagcccatct cctggggagg ctaacatact accatctcca aggagaggca 180
tgattccgaa tcacccacag acagctcgat caccatacgt atcaccacaac atatatacc 240
45 tctaagactt gctagaaaca accaccatct ttgatgctt atcaccactc tgacgcgcatt 300

taaagtgagg ggactctcct aatttctgta agttgattt tgcattctga	350
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5 <211> 515	
5 <212> DNA	
5 <213> Human	
10 <400> 61	
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10 cactttctt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag	120
15 aataatcagg caaatccta agaataaggg caattaagga tgactagccc tacaagattt	180
15 taaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatctg	240
20 aagtagatcc aaatatacat ggtcagattt aatacaataa agatggcatc gtagcagtgg	300
20 agaaaagaag aattatttca taaaccctgt tggaatggct agccaatcat ctggaaaaaa	360
20 atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgtat	420
25 ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata	480
25 gtcttctaaa atatatgact ttatgaattc tgact	515
30 <210> 62	
30 <211> 611	
30 <212> DNA	
30 <213> Human	
35 <400> 62	
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35 aagactttgg tttataaaat aaggaggtat atataaatta tatattttc tgagctgagt	120
40 aataatccac cagatacaag ttgcataa cttctgtgaa atatttttt tccttttgt	180
40 tggcatttt tatggctaa atatagaatg accaatgcct ctggacacacgg	240
45 tcagtgttat caagaagcag actgtttctt actttcttg tatttccta cttatttaaa	300
45 ttgttaaaa ttgatataatt gatataaaa acttctttg ccagtgtgg tggcacacgc	360

cttaatccc agcacttagg aggtaggcaggc agggtggatt tctgaatttgc agggcaggct 420
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5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600
cagaccaaac t 611
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<211> 291
<212> DNA
15 <213> Human

<400> 63
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20 taatgcgaat atacttcctc ttcttttgc atggcttgc ccagccctgt caatactgtat 120
gaacacatgc tgaagatcat ctaactcaat atggcgatata ttctatgtc ttgctgccc 180
ggacatagga caacttcgtc gctcaactgt tctaacatata taatgctggc gtaggtggag 240
25 aactactgca catabactct tactcgagg ctgaggcactg aggatcactt g 291

<210> 64
30 <211> 309
<212> DNA
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<400> 64
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cattatcacc tctcaactctc gcgtgttacc taactctccc tcgcaggga aatcaactcca 120
tatatttcaa atgtcttgc aacagtggtt actttgcctt atccttagct atacgtctcg 180
40 aggcacattg ttccctatg ccccgctacg ctttgcctta gagctcggcg gtatctata 240
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45 ctgattaga 309

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<212> DNA
5 <213> Human

<400> 65
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10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
aggatggaa tggactcgaa ggaaatggaa tggaatggat tcgaatggaa aggaatggaa 180
15 tggactcaaa aggaatggaa tggaatggac tcaaattggaa tggactcgaa ttgaatgaaa 240
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<210> 66
20 <211> 142
<212> DNA
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<400> 66
25 agttctcattt aggttaatta atggaaatgca atcccaatga aaatgtcacc aaagttgttt 60
tttttaac tggatggatgt ttataataat gctcatatgg aaaaataaaa catgtaaaaa 120
30 atagcttagta aactccccct gt 142

<210> 67
35 <211> 286
<212> DNA
<213> Human

<400> 67
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40 aaagatgatc tcctcatgctt cccatgcactt gcgaggatggaa gacatactga gcatagtg 120
attattttcc caacaaatttgc gcattcatag atagaataag ctgactaaga ctacttagcc 180
ccacattttt ttctacttgc tccaaatgc ctaacaaata ggaagctttt gcttgccttcc 240
45 caaagctcca ttcccttggaa agcagaatgtt taatattactt tccttag 286

5 <210> 68
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 <212> DNA
 <213> Human

10 <400> 68
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 tagaagtcat tatttttattataaaaacatgtt ggatttagata ttttcatttttgtgattaaa 120
 ctttctaaac aaagatttata taaagattttaaaaagtaattt aagttaat 179

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 cttcagtctt agaacgtaaa tccatggaaag aattttaaagc aggggtgtgc ctggaccaca 120
 ttttgaattt taaactgtctt ctgggtgggtt gtgggtgcca ccaagagcat gtgttcatgtt 180
 agggagactg gttttttaca gttgtctatg agagagatgtt cagttgcctt gattatgggt 240

35 gtgacatttttgg agataaggcag gttagacagat tctcagtgtt ttaggagaga aaaatcaata 300
 ggaaattttaa aataaataat taactgtggc cataggaggtt aggagtctt gggttnggtt 360

40 ctcaatttctt gcatgagaaa aaaggtggac 390

45 <210> 70
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 <223> n is a, c, g, or t

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 tgaatgata gatgagataa aatgatgata taaaatgatg agatgaatga tgagatgatg 180
15 agatgaatga taaaatgaaa taaaatgatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag taaaatgaaa ttgaaataaa atcgaatgaa gagatgaaat 300
 gatgagatga taaaattgat gaaatgatga gatgtatgaa gatgaaatgaa tgagatgaga 360
20 tgagatgaca taaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
 atgagatgaa atgatgagat gaaatgaaat agtgaatgaa aattgaaata aaatcgaaat 480
25 g 481

30 <210> 71
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15 ngacgcgccc tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120
cacag 125

20 <210> 72
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25 <220>
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<223> n is a, c, g, or t

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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240

40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420

45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

5 <210> 73
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

20 <220>
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 <223> n is a, c, g, or t

25 <400> 73
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aaatgaaatt agatgaaatg taatgagatg aatgaaatg acctaattgaa atgaaataat 120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aatgaaaat gagatggaaa 180

30 - tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga gaaaaatga 240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300

35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360

aatgatgaaa tgatgagatg aatgatgaa atgaaataat gaaatgagat gaaataaaat 420

aatgaaatga tgaaataatg aatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480

40 atgagatgaa atgatgaaat 500

45 <210> 74
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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature

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<223> n is a, c, g, or t

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgtatgatgaaatgatgaa 120

cataaaatga gatgaaatga gatgtatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgtatgaga tgatgagatg 240

aatgtatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75

<211> 155

<212> DNA

<213> Human

30 <400> 75

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taaaatgatg aaatgtatgag gtgtatgagat gaaatgatga gatgaaatga tgagatgaga 120

35 tgatgacatgaaataatg aaacgaaattt gaaat 155

<210> 76

40 <211> 367

<212> DNA

<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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cgccatgaaa ttctgctcg attagcttac gttgttgga tagaggccaa acaaggctgt 180

45 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aatttagat 360
5 gtcattg 367

10 <210> 77
<211> 257
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25 <400> 77
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atagaaatca ttatttctgt gggatggata attggccaa attgtaaaat attttaacta 120

30 tcagtgttg gggtttattt taaaagaat agggtgccac cagatgtct ttagtggagg 180
agaaaatgagg ccagagtgcac tgcctagaaa attaagttgg taaattaatc actttttct 240
aggccttc ttagtct 257
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40 <210> 78
<211> 373
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45 <223> n is a, c, g, or t

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ataatggatt ttattgttaa attgtgtgtg tgggtgtgt atgcccgtc ttttcctc 300
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gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa taaaatgaaa 300

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 aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccctctcc attcgcaaca 240

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aaaaaaaagg taaaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
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40 atgggnaant tnnnnngggg gggggaaaaa ancccnnggg tnanngggg cccngggntt 180
naaannnggn nctnggggg ggaaantttt ggccccccccc cgggggnntt ncctnaaaaaa 240
aaancnntt naaanacngn nanaatttn ccnnnnccggg gaggnngngga nntttttt 300

45 tnaannagcc nttttgnna naaaaannnt ggnccccccc ctattccnng gntttngga 360

5 ccntnnanc ntgggnntt ttagncctn aaaaaaangc naatntaag gtaaaaatn 420
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ntnnanctnc ngntnaacat cacagctncc cnagcatca ccctgctagn tancngnggg 180
30 tttctctta tntgnngncc naacatctgc nngctctgnt annaanaatt ncataccgcn 240
canngtctnt gacgntgtga tgcatacgnt tggcagagn gancaatang tgngcatatg 300
35 cgtgcccttac ncaaggatac ggangngctt gaaattgtatc ngaccaanan ttnngtacg 360
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 atgagatgat gaaataaaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180
40 tcatgagatg agatgacatg aaataatgaa aataatgaaa tcgaaatgag atgagaagat 240
 acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatgaa aagagttga 300
45 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

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 atg 600
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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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5 tgcttggtag acgccttga acccttcagc gctgaaagta 100

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ntgagatgaa aagagatgaa atgagatgaa accgaaaatgaa tgagatgaaa tgagggtgaaa 420
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ctcagggggt cttttgtct ctacgcctaa aaacttaatc tgtttggAAC aattccnntt 180
5 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240
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30 ngaggaagac cc 132

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aaaaatagat aatggtaatc caagcacgtat ggttagccatc actctaattt ctgggggtt 180
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analysis

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